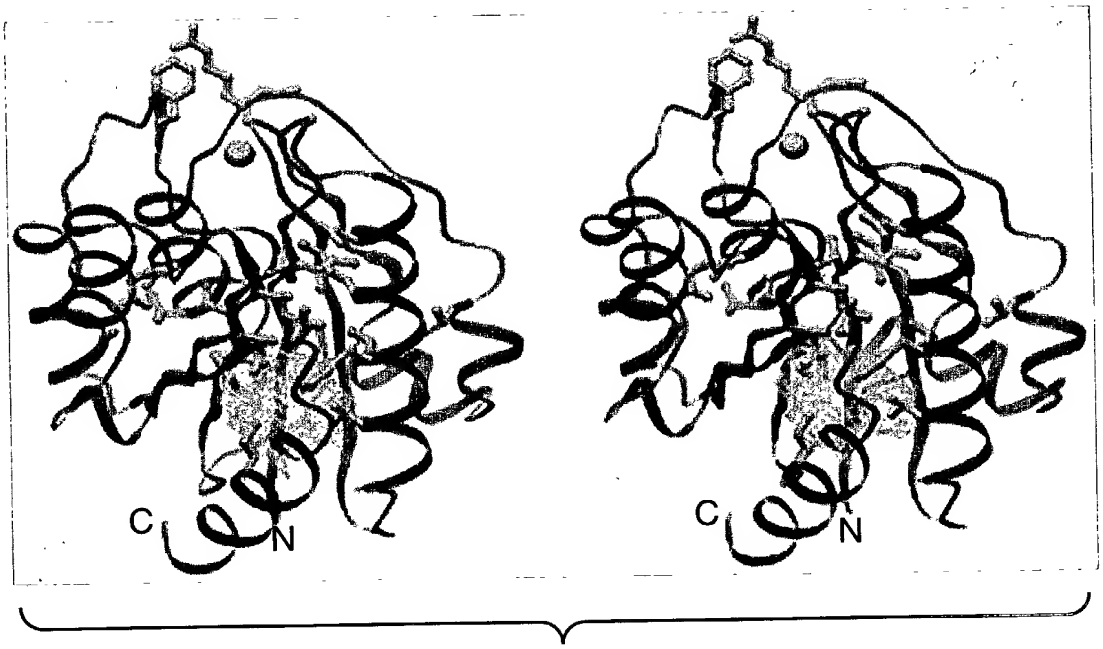

FIG._1A

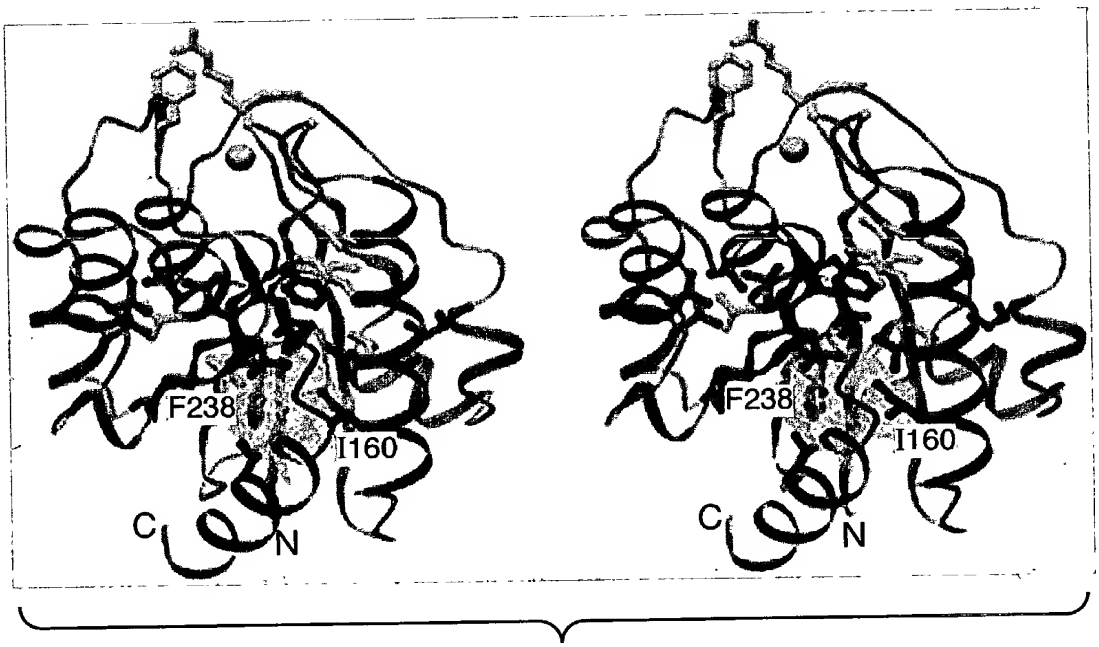

FIG._1B

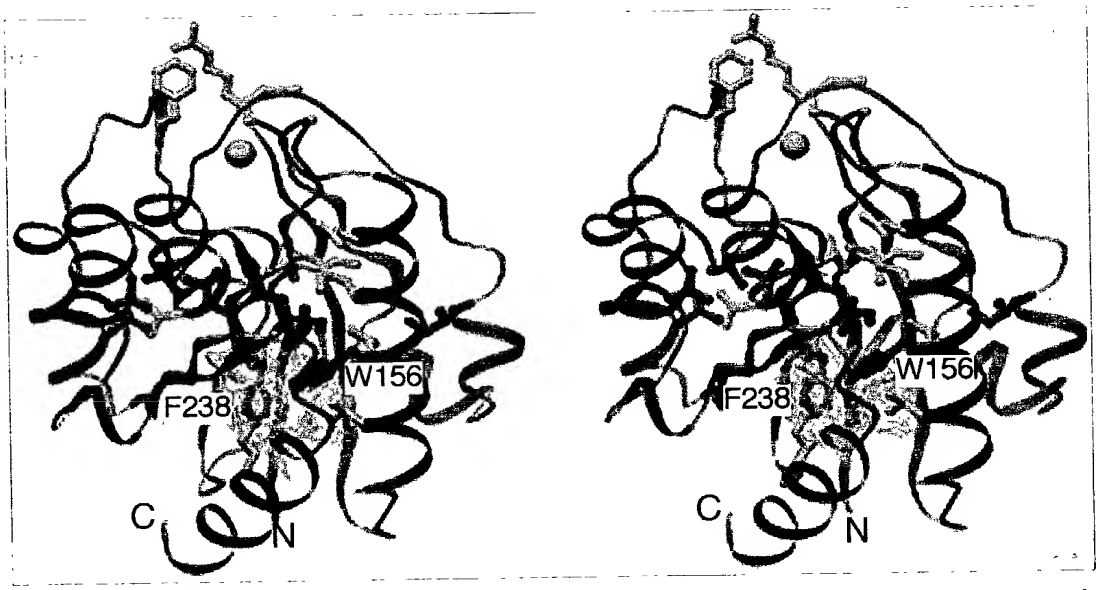

FIG._1C

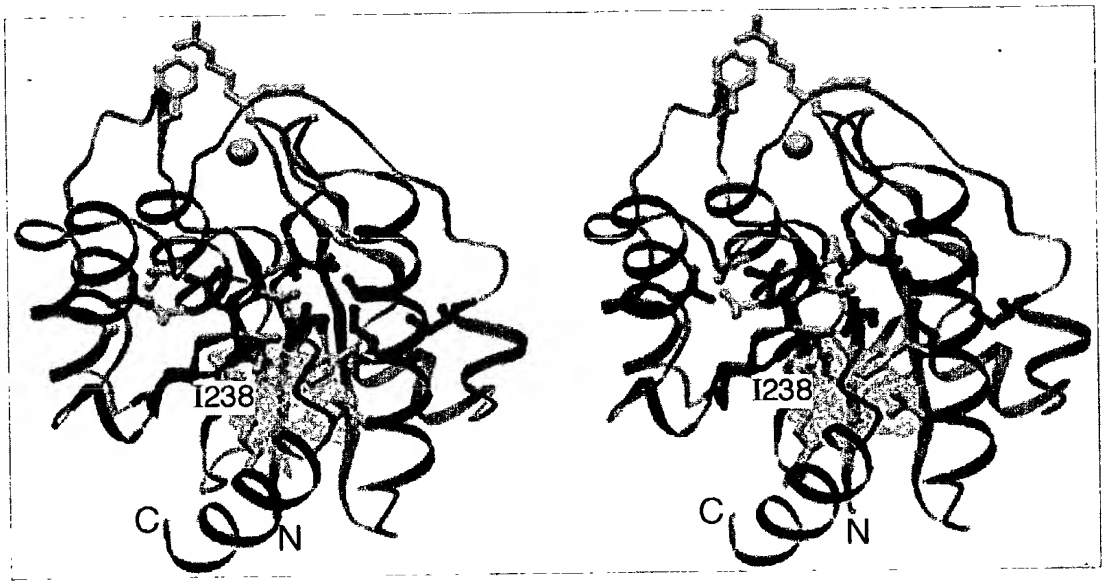

FIG._1D

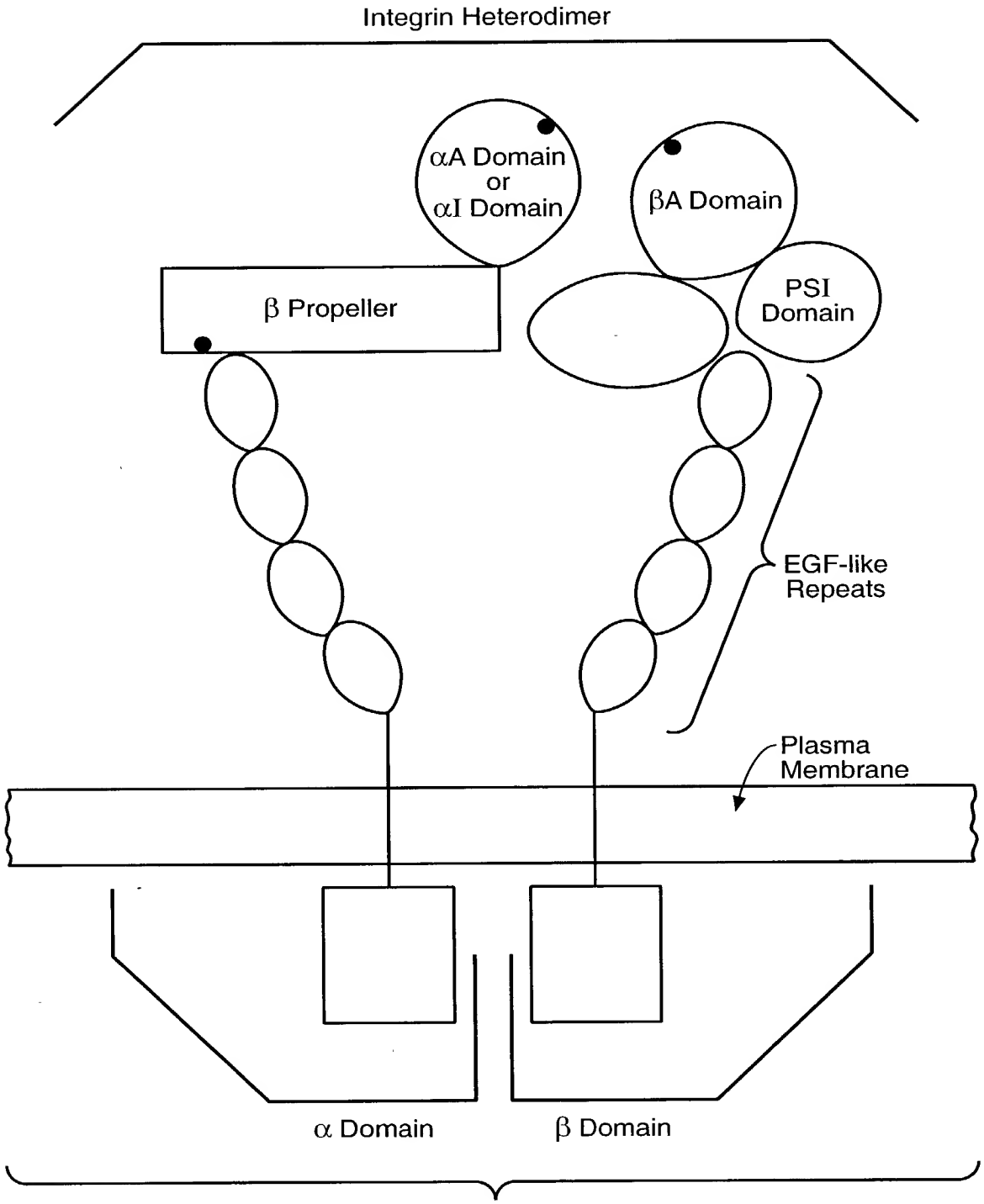
Integrin Heterodimer
αA Domain
or
αI Domain
βA Domain
β Propeller
PSI
Domain
EGF-like
Repeats
Plasma
Membrane
α Domain
β Domain

FIG._1E

MALRVLLLTALTLCHGFNLDTENAMTFQENARGFGQSVVQLQGSRVVVGAP

QEIVAANQRGSLYQCDYSTGSCEPIRLQVPVEAVNMSLGLSLAATTSPPQL

LACGPTVHQTCSENTYVKGLCFLFGSNLRQQPQKFPEALRGCPQEDSDIAF

LIDGSGSIIPHDFRRMKEFVSTVMEQLKKSKTLFSLMQYSEEFRIHFTFKE

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ITDGEKFGDPLGYEDVIPEADREGVIRYVIGVGDAFRSEKSRQELNTIASK

PPRDHVFQVNNFEALKTIQNQLREKIFAIEGTQTGSSSSFEHEMSQEGFSA

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AIILRNRVQSLVLGAPRYQHIGLVAMFRQNTGMWESNANVKGTQIGAYFGA

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YGEQGQPWGRFGAALTVLGDVNGDKLTDVAIGAPGEEDNRGAVYLFHGTSG

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ELPVKYAVYMVVTSHGVSTKYLNFTASENTSRVMQHQYQVSNLGQRSLPIS

LVFLVPVRLNQTVIWDRPQVTFSENLSSTCHTKERLPSHSDFLAELRKAPV

VNCSIAVCQRIQCDIPFFGIQEEFNATLKGNLSFDWYIKTSHNHLLIVSTA

EILFNDSVFTLLPGQGAFVRSQTETKVEPFEVPNPLPLIVGSSVGGLLLLA

LITAALYKLGFFKRQYKDMMSEGGPPGAEPQ

FIG._1F

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cgcctgcagg tccccgtgga ggccgtgaac atgtccctgg gcctgtccct ggcagccacc
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FIG._1G-1

agtacgtgcc acaccaagga gcgcttgccc tctcactccg actttctggc tgagcttcgg
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FIG._1G-2

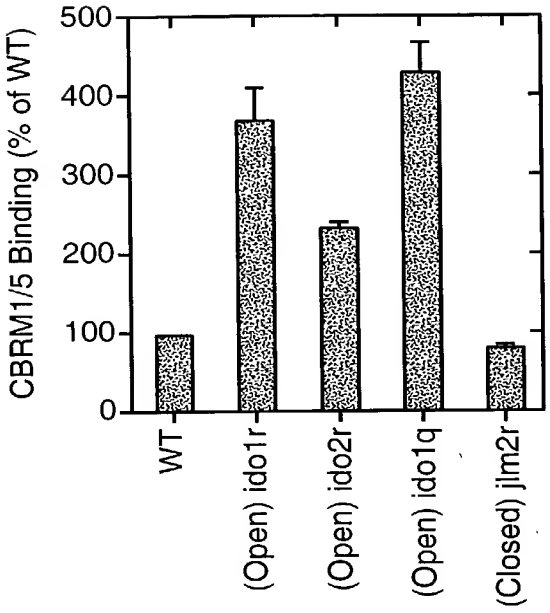


FIG._2A

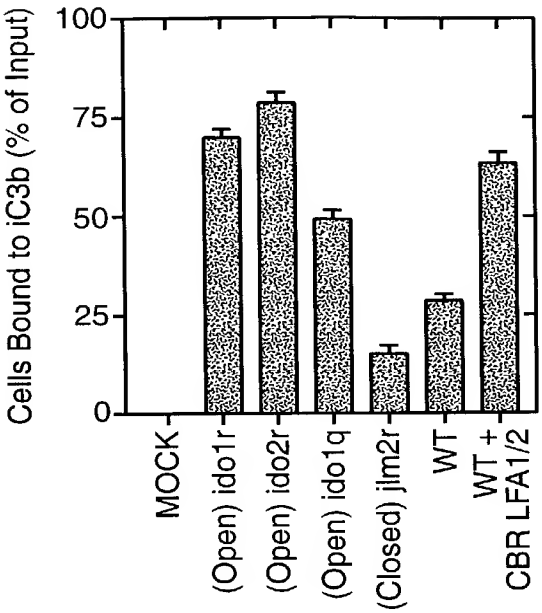


FIG._2B

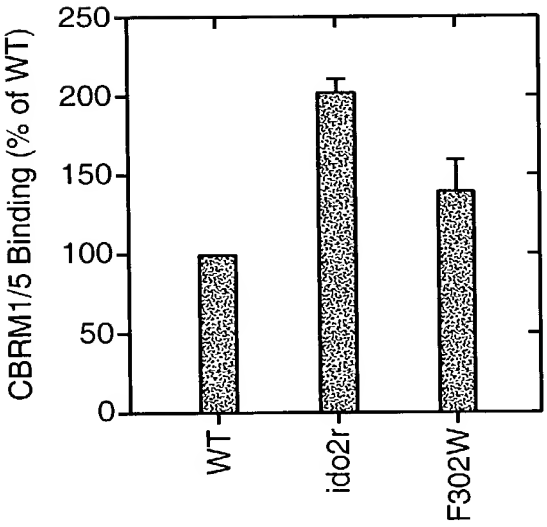


FIG._2C

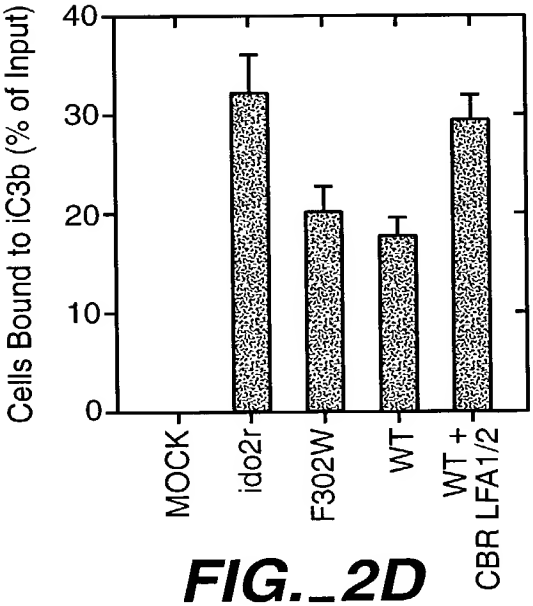


FIG._2D

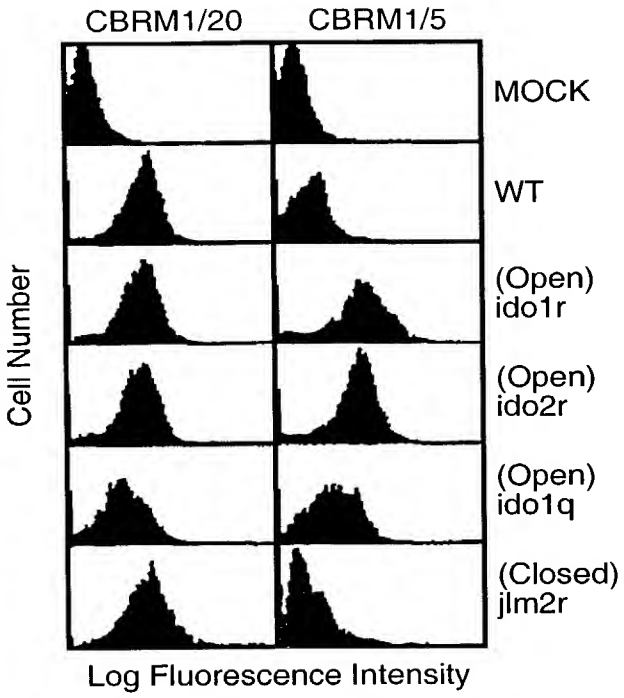


FIG._3A

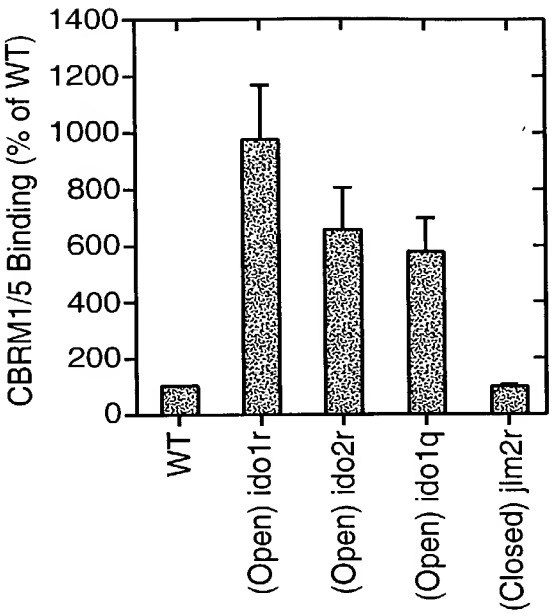


FIG._3B

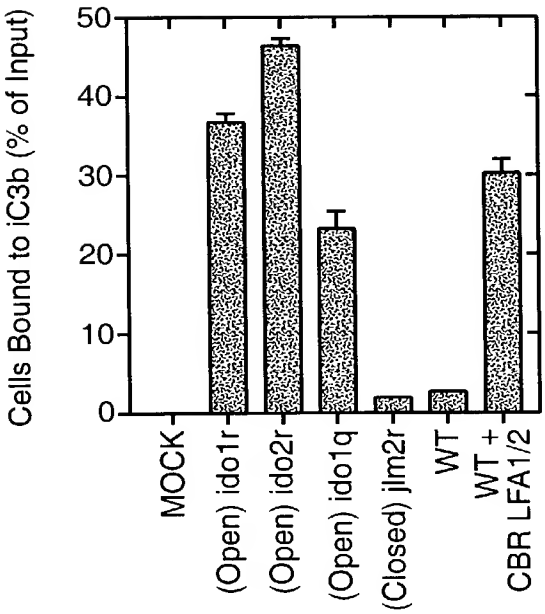


FIG._3C

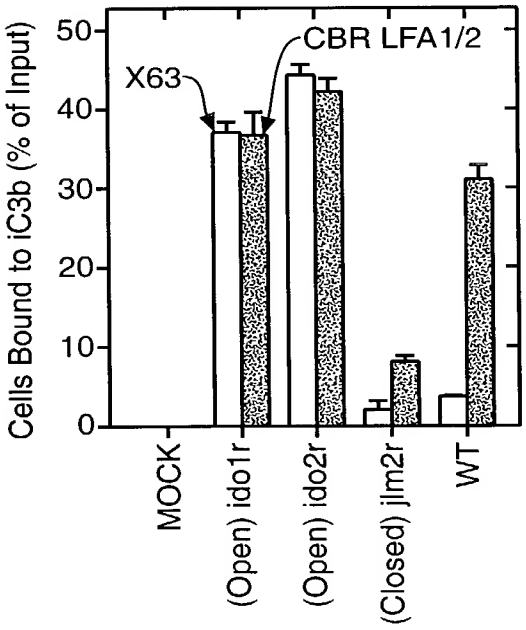


FIG._3D

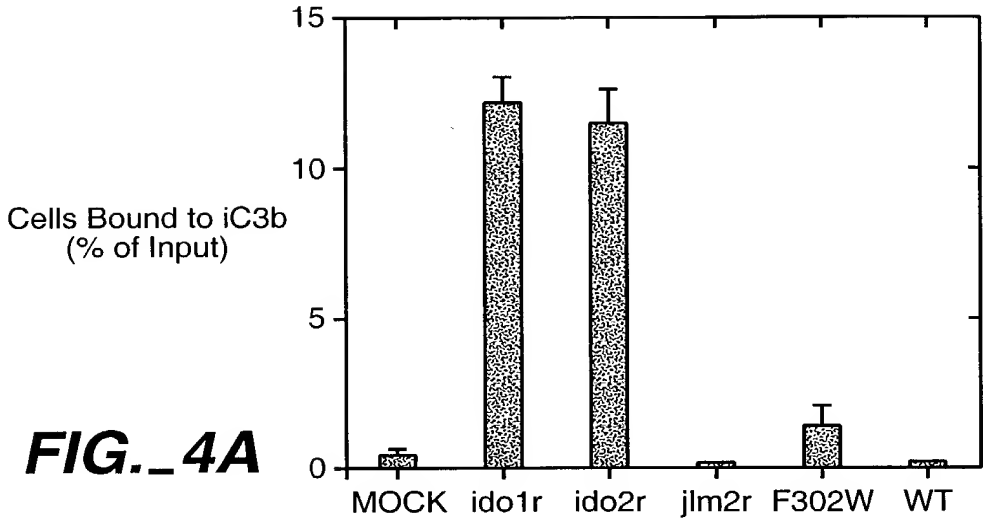


FIG._4A

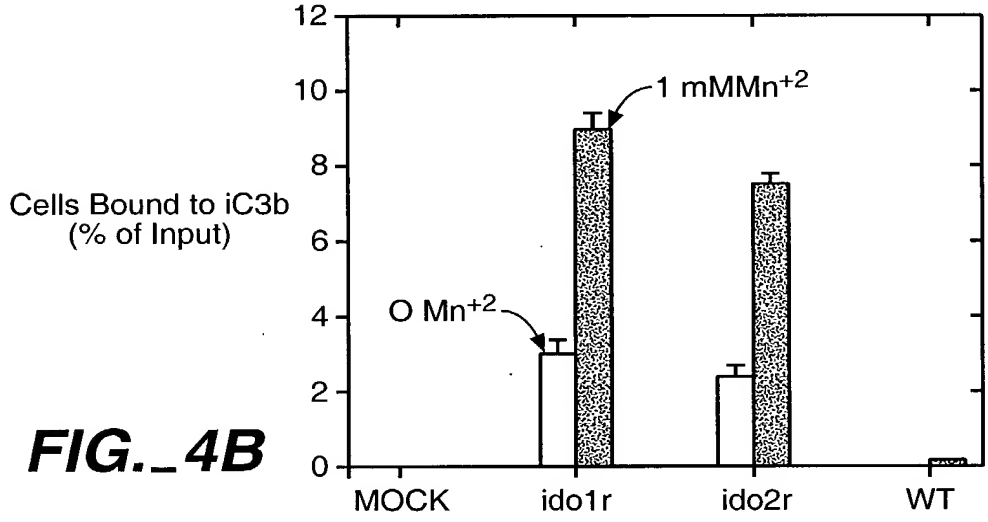


FIG._4B

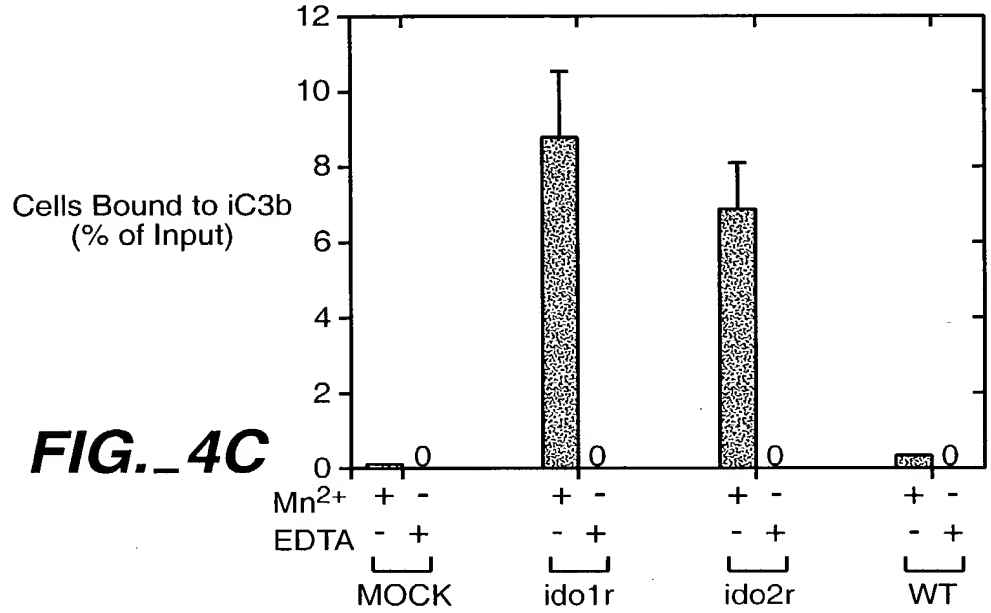


FIG._4C

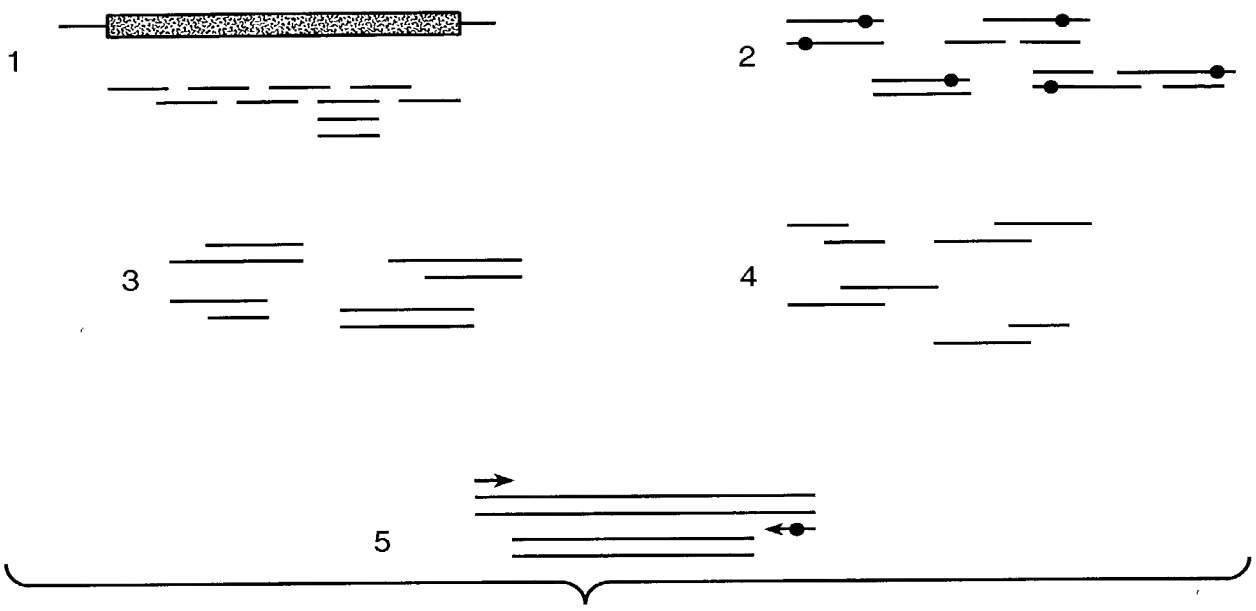

1
2
3
4
5

FIG._5

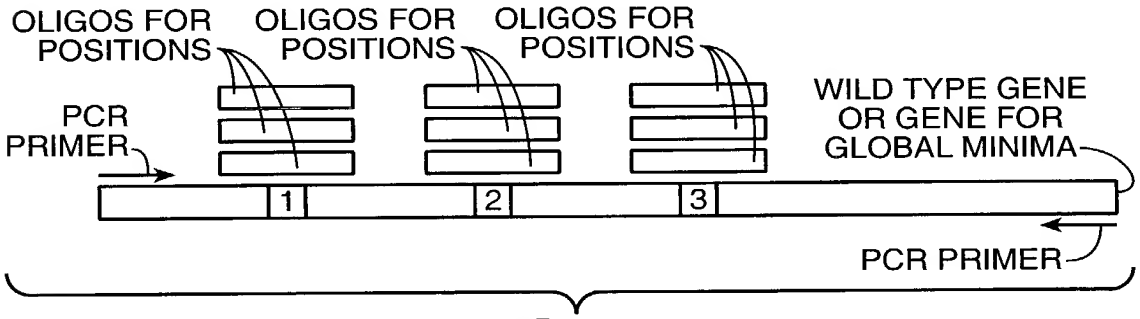
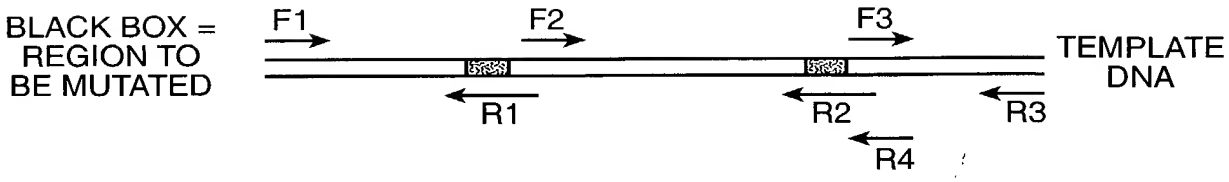

OLIGOS FOR POSITIONS
OLIGOS FOR POSITIONS
OLIGOS FOR POSITIONS
PCR PRIMER
WILD TYPE GENE OR GENE FOR GLOBAL MINIMA
1
2
3
PCR PRIMER

FIG._6



STEP 1: SET UP 3 PCR REACTIONS:

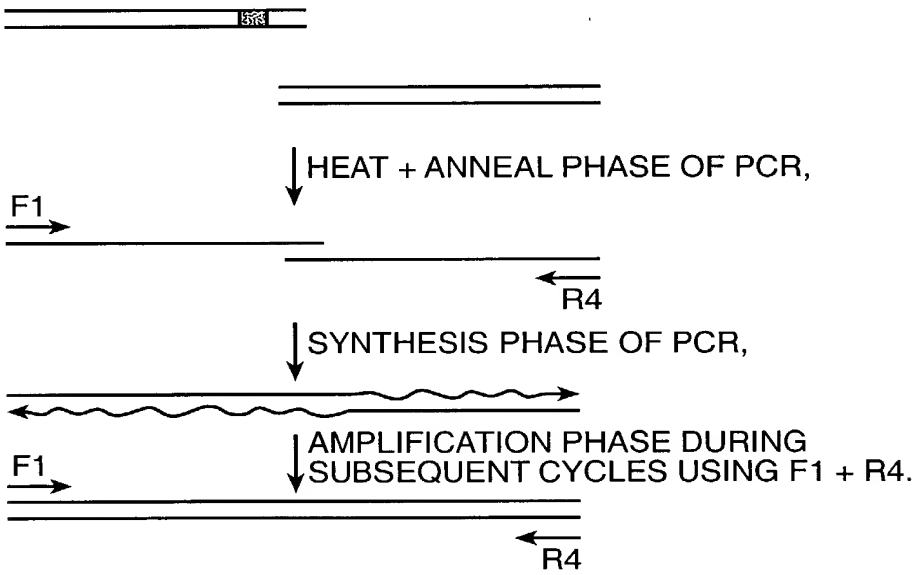
PRODUCTS:

TUBE 1:

TUBE 2:

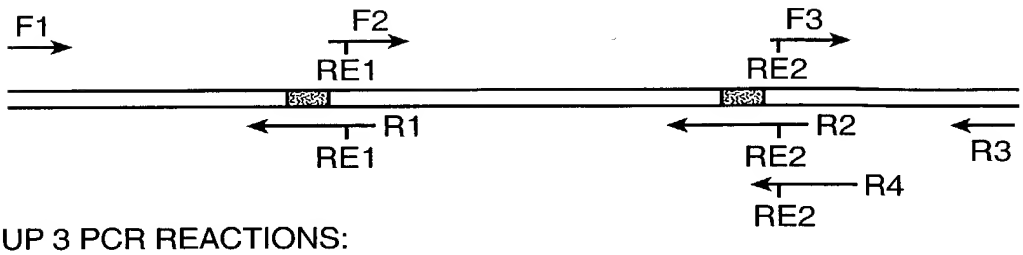
TUBE 3:

STEP 2: SET UP PCR REACTION WITH PRODUCTS OF TUBE 1 + PRODUCTS TUBE 2 + F1 + R4.



STEP 3: REPEAT STEP 2 USING PRODUCT FROM STEP 2 + PRODUCT FROM STEP 1, TUBE 3 + PRIMERS F1 + R3.

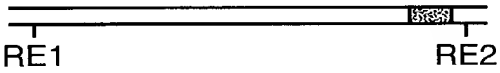
FIG._7



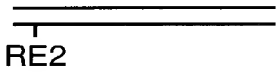
STEP 1: SET UP 3 PCR REACTIONS:

TUBE 1:

TUBE 2:



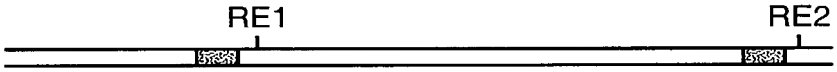
TUBE 3:



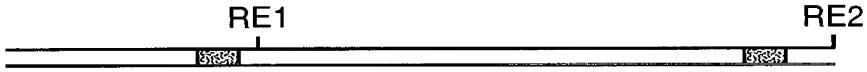
STEP 2: DIGEST PRODUCTS FROM STEP 1 WITH SUITABLE RESTRICTION ENDONUCLEASES.

STEP 3: LIGATE DIGESTED PRODUCT FROM STEP 2, TUBE 2 WITH DIGESTED PRODUCT FROM STEP 2, TUBE 1.

STEP 4: AMPLIFY VIA PCR LIGATED PRODUCTS OF STEP 3 WITH F1 + R4.



STEP 5: DIGEST AMPLIFIED PRODUCT OF STEP 4 WITH RESTRICTION ENDONUCLEASE #2.



STEP 6: LIGATE PRODUCT FROM STEP 5 WITH PRODUCT FROM STEP 2, TUBE 3.

STEP 7: AMPLIFY PRODUCT FROM STEP 6 WITH F1 + R3.

FIG._8

DIAGRAM 3

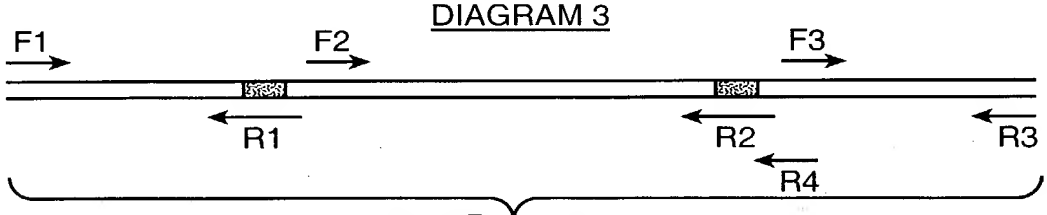


FIG._9